

Animal and Plant Health Agency

APHA Genetic Modification Inspectorate

Growing season field inspection report: consent 18/R08/01 (2021 release)

A report of a field inspection visit to an experimental genetically modified (GM) crop trial to assess compliance with Part VI of the Environmental Protection Act 1990 and the Genetically Modified Organisms (Deliberate Release) Regulations 2002.

GMO consent details

Consent reference: 18/R08/01 ('Part B' consent)

Consent holder: Rothamsted Research

Crop type: *Camelina sativa* (camelina, gold-of-pleasure, or false flax)

Site details: Harpenden, Hertfordshire

OS Reference: TL 122 134

Details of the GMO: *Camelina sativa* plant lines containing genetic elements carried on binary vectors pSUN2 or pRS-3G. The GM lines contain one or more of the fourteen DNA constructs developed using these vectors, and described in consent 18/R08/01.

Purpose of the release: Research trial to determine the agronomic performance and seed oil yield of transgenic camelina plants engineered to accumulate non-native lipids in their seed oils, and to evaluate transgene-derived traits which deliver alterations to plant architecture or metabolism.

Site inspection details

Inspection date: 13/08/2021

Site reference: Harpenden-18/R08/01-2021-01

Staff seen: Consent Holder; Farm Manager.

Inspection details: The Genetic Modification Inspectorate carried out an inspection, during the seed-setting/seed ripening stage, of this 2021-sown research trial of GM camelina. Checks were made on the measures in place to restrict human access to the trial, the size and layout of the GM plots, the arrangements in place for growing-season

monitoring, and plans for the harvest of the GMOs. All were in accordance with the requirements specified in the consent.

The Consent Holder had opted not to sow a pollen barrier around the plots, and had therefore implemented a separation distance of at least 50 metres from any wild or cultivated camelina species, as per the consent requirements. During the inspection visit it was confirmed that the Consent Holder had suitable protocols in place to ensure that this separation distance was appropriately monitored.

Conclusions and actions

Report conclusions: The Genetic Modification Inspectorate is content that the release is consistent with the conditions and limitations specified in the consent. No risks to human health or the environment, posed by the genetically modified organism, were identified.

Action required/taken: None

APHA GM Inspectorate
Sand Hutton,
York,
YO41 1LZ

17/08/2021

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Consent holder: Rothamsted Research

Crop type: *Camelina sativa* (camelina, gold-of-pleasure, or false flax)

Site details: Harpenden, Hertfordshire

OS Reference: TL 122 134

Details of the GMO: *Camelina sativa* plant lines that contain or were developed using some or all of the fragments of DNA described in Part A1(12) of application 19/R08/01.

Purpose of the release: Research trial to determine the agronomic performance and seed oil yield of transgenic *C. sativa* plants engineered to accumulate non-native lipids in their seed oils, or to exhibit a variation in the accumulation of native fatty acids.

Site inspection details

Inspection date: 13/08/2021

Site reference: Harpenden-19/R08/01-2021-01

Staff seen: Consent Holder; Farm Manager.

Inspection details: The Genetic Modification Inspectorate carried out an inspection, during the seed-setting/seed ripening stage, of this 2021-sown research trial of GM camelina. Checks were made on the measures in place to restrict human access to the trial, the size and layout of the GM plots, the arrangements in place for growing-season monitoring, and plans for the harvest of the GMOs. All were in accordance with the requirements specified in the consent.

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GMO consent details

Consent reference: 18/R08/01 ('Part B' consent)

Consent holder: Rothamsted Research

Crop type: *Camelina sativa* (camelina, gold-of-pleasure, or false flax)

Site details: Brooms Barn, Suffolk

OS Reference: TL 756 655

Details of the GMO: *Camelina sativa* plant lines containing genetic elements carried on binary vectors pSUN2 or pRS-3G. The GM lines contain one or more of the fourteen DNA constructs developed using these vectors, and described in consent 18/R08/01.

Purpose of the release: Research trial to determine the agronomic performance and seed oil yield of transgenic camelina plants engineered to accumulate non-native lipids in their seed oils, and to evaluate transgene-derived traits which deliver alterations to plant architecture or metabolism.

Site inspection details

Inspection date: 30/09/2021

Site reference: Brooms_Barn-18/R08/01-2021-01

Staff seen: Brooms Barn Trials Manager.

Inspection details: The Genetic Modification Inspectorate carried out a pre-harvest inspection of this 2021-sown research trial of GM camelina. Checks were made on the measures in place to restrict human access to the trial, the size and layout of the GM plots, arrangements in place for growing-season monitoring, and plans for the harvest of the GMOs. All were in accordance with the requirements specified in the consent.

The Consent Holder had opted not to sow a pollen barrier around the plots, and had therefore implemented a separation distance of at least 50 metres from any wild or cultivated camelina species, as per the consent requirements. During the inspection visit it was confirmed that this separation distance was being appropriately maintained and monitored.

Conclusions and actions

Report conclusions: The Genetic Modification Inspectorate is content that the release is consistent with the conditions and limitations specified in the consent. No risks to human health or the environment, posed by the genetically modified organism, were identified.

Action required/taken: None

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01/10/2021

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Consent holder: Rothamsted Research

Crop type: *Camelina sativa* (camelina, gold-of-pleasure, or false flax)

Site details: Brooms Barn, Suffolk

OS Reference: TL 756 655

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Purpose of the release: Research trial to determine the agronomic performance and seed oil yield of transgenic *C. sativa* plants engineered to accumulate non-native lipids in their seed oils, or to exhibit a variation in the accumulation of native fatty acids.

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Action required/taken: None

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